

Patent Abstracts of Japan

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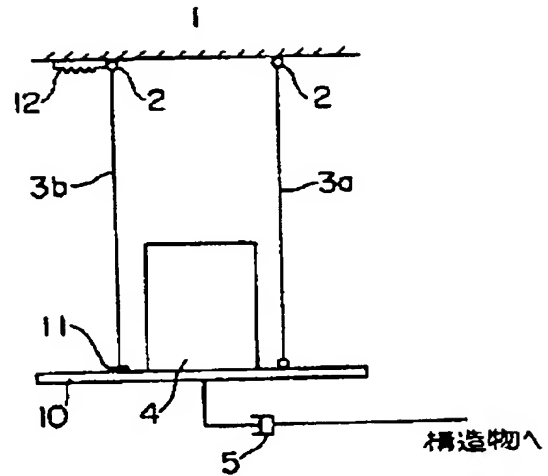
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APPLICANT : NIPPON CHUZO KK;

INVENTOR : HORIUCHI HIROSHI;

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TITLE : PENDULUM TYPE DAMPING DEVICE
FOR LONG PERIOD STRUCTURE



ABSTRACT : PURPOSE: To increase a damping effect by hanging a weight support plate from an upper support part by means of plural hanging members, joining both edges of one hanging member with pins, and joining the upper part of the other hanging member with a pin so that the lower part can be connected to a roller on the support plate.

CONSTITUTION: A weight 4 is loaded on a weight support plate 10, and is hanged from an upper support part 1 by means of plural hanging members 3. The upper and lower edges of one 3a of the hanging members 3 is joined with pins 2. In the other hanging member 3b, the upper part is joined to the upper support part 1 with a pin 2, and the lower part is connected to the weight support plate 10 by means of a roller 11. The roller 11 can move freely in the right and left directions, and when it is stationary, it is situated in the vertical downward position under the pin 2 so as to keep the balance, and though the weight act so as to negate vibration of a structure, since the roller 11 moves always so as to be situated in the vertical downward position under the pin 2, only the hanging member 3a can bring about horizontal restoring force. Thereby, in spite of its simplified structure, a damping effect can be increased.

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